

WHAT IS CLAIMED IS:

- 1 1. A system comprising:
 - 2 a frequency-stepped radar configured to induce vibrations in a landmine using
 - 3 different frequencies;
 - 4 a sensor configured to detect signals associated with the vibrations; and
 - 5 a processor configured to process the signals to detect the landmine.

- 1 2. A method comprising:
 - 2 using a frequency-stepped radar to sequentially induce vibrations of different
 - 3 frequencies in a landmine;
 - 4 detecting signals associated with the vibrations; and
 - 5 processing the signals to detect the landmine.